

### ABSTRACT OF THE DISCLOSURE

A noble metal tip 20 for attachment to a spark plug center electrode 36 and/or a ground electrode. Noble metal tip 20 is a generally cylindrical component that includes a firing end 40, an attachment end 42, and one or more retention features 44, 46 and 60, 62. The retention features are generally conically shaped holes or recesses formed in the side of the noble metal tip, and are designed to receive molten material during a laser attachment process. Once the molten material has solidified in the retention features, a fusion layer is formed and acts as a mechanical bond or interlock between the noble metal tip and the electrode. Methods of manufacturing and attaching the noble metal tips are also provided.